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CLAIMS

- 1. A system for color measurement for a color hard copy apparatus, having a print media transport path, comprising:
- 5 | 05 an illumination source adjacent to said path;
 - 104 a plurality of photodetectors adjacent to said path; and
 - 102 a test pattern on a sheet of media traveling said path, the pattern having a geometric configuration such that each of said photodetectors detects substantially discrete regions of said pattern having a single color generated by said apparatus.
 - The system as set forth in claim 1, further comprising:
 said photodetectors having predetermined spectral responses.
- 15 3. The system as set forth in claim 1 wherein the illumination source is broadband.
 - 4. The system as set forth in claim 1, further comprising:
- 1) a white calibration target mounted within the field of view of all of said20 sensors.
 - 5. A color hard copy apparatus, having a mechanism generating a test pattern on media transported along a predetermined path through said apparatus, comprising:

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adjacent said path downstream of the mechanism, a broad band 105 illumination source mounted for illuminating said pattern; and

adjacent said path downstream of the mechanism, an array of sensors 104 mounted for detecting color properties of discrete areas of a region of the test pattern having an intended uniform color generated by the mechanism.

- The apparatus as set forth in claim 5, comprising:
 said sensors having predetermined spectral responses.
- The apparatus as set forth in claim 5 wherein the illumination source is broadband.
 - 8. The apparatus as set forth in claim 5, further comprising:
- 1|O a white calibration target mounted within the field of view of all of said15 sensors.
 - 9. A method for measuring actual color produced by a color hard copy device comprising the steps of:
- 105 a) illuminating with broad band light, a region of a color test pattern generated by the device, wherein said region has a first color generated by the device;
 - b) discretely sensing actual color characteristics of individual areas of said region; and
 - c) storing data representative of said color characteristics.

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- 10. The method as set forth in claim 9, comprising the further steps of: printing a plurality of intended colors in addition to said first color with said device, and
- repeating steps a)-c) for each of the plurality of intended colors other than said first color.
 - 11. The method as set forth in claim 9, comprising the further step of: prior to steps a) - c), calibrating each of said sensors using a white calibration target.